

### Abstract

A method and system for processing data arriving from a bit-stream to perform numerical computations in a temporal order independent fashion. According to one embodiment, the method is applied to IDCT computations to allow processing  
5 of IDCT coefficients in the same order they are received from an MPEG bit stream. The coefficients are not required to be converted from scan order to array order before processing. This provides significant advantages in that it imposes minimal storage requirements for the coefficients and the coefficients are processed in scan order.